LOCATION

The East Osage River Basin lies in the central Missouri counties of Osage, Maries, Cole, Pulaski, Miller, Camden, Morgan, Benton, Laclede, and Hickory (Figure 1). Hereafter, the term "basin" shall refer to the East Osage River Basin as covered in this document, unless otherwise specified. The basin as described in this Watershed Inventory and Assessment starts at the Osage River-Missouri River confluence (River Mile (RM) 130.2) at T44N, R10W, Section 5 near Jefferson City, MO. It initially extends southwestward upstream along the Osage River to the basin's near center point at Bagnell Dam at T40N, R15W, Section 19. From this point, the basin extends both westward and southward. The western leg extends upstream on Lake of the Ozarks (LOZ) Reservoir and ends at Harry S Truman Reservoir (HST) at T40N, R23W, Section 17 near Warsaw, MO. The southern leg extends southward from Bagnell Dam along Wet Glaize and Dry Auglaize creeks and ends in the upper most reaches of Goodwin Hollow, a major tributary to Dry Auglaize Creek, near Lebanon, MO.

The basin encompasses 2,474.52 sq. mi² as outlined in this document and includes the Osage River and all tributary streams except the Niangua River and its tributaries and the Osage River upstream of Truman Dam. The Niangua River Basin and the West Osage River Basin are both tributary basins to the East Osage River Basin (Figure 2) and are covered in separate basin Inventory and Assessments.

The basin is divided into two 8-digit HUCs by the USGS; the Lake of the Ozarks HUC -10290109 (1,392.98 sq. mi²) and the Lower Osage HUC -10290111 (1,081.54 sq. mi²). These HUCs are further divided by the USGS into fourteen subunits or 11-digit HUCs (Figure 3) as a means of managing these basins and their basin-related information. Throughout this document the 14 USGS 11-digit HUCs will be referred to as subbasins to facilitate discussion of the large diverse basin area (Table 1). Hereinafter, each subbasin will be referred to by the name below of that subbasin.

1 T	\circ	ъ.	0 11 '
I. Lower	Usage	River	Subbasin

2. Lower Maries River Subbasin

3. Upper Maries River Subbasin

4. Little Maries River Subbasin

5. Tayern Creek Subbasin

6. Wet Glaize Creek Subbasin

7. Dry Auglaize Creek Subbasin

8. Lower LOZ Hills Subbasin

9. Deer Creek Subbasin

10. Turkey Creek Subbasin

11. Cole Camp Creek Subbasin

12. Upper LOZ Hills Subbasin

13. Gravois Arm Subbasin

14. Miller County Osage River Hills Subbasin

A major feature of the basin is Lake of the Ozarks. Construction of Bagnell Dam began in 1929. The dam began impounding water in 1931 to form Lake of the Ozarks. Lake of the Ozarks, Missouri's second largest reservoir, covers 55,000 acres and has over 1,300 miles of privately-owned shoreline. Bagnell Dam is owned and operated by AmerenUE.

Outside basins which surround the East Osage River Basin include: Lamine River Basin, Moreau River Basin, Missouri River Basin, Gasconade River Basin, Niangua River Basin, Pomme de Terre River Basin, West Osage River Basin, and South Grand River Basin.

Figure 1. Counties which include portions of the East Osage River Basin

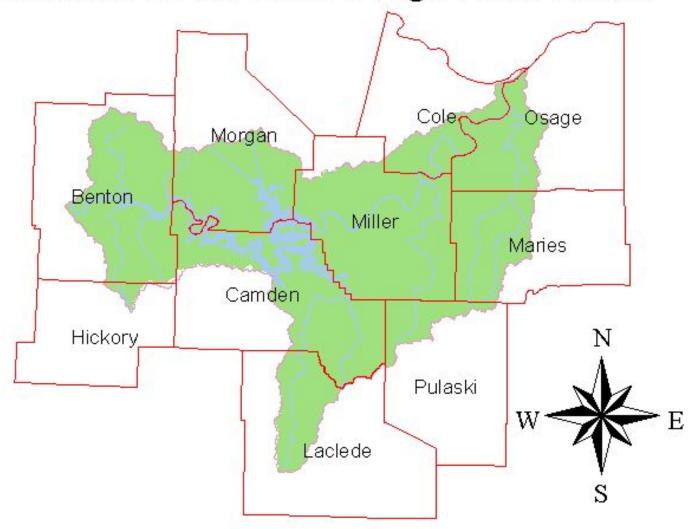


Figure 2. East Osage River Basin in relation to rivers of tributary basins

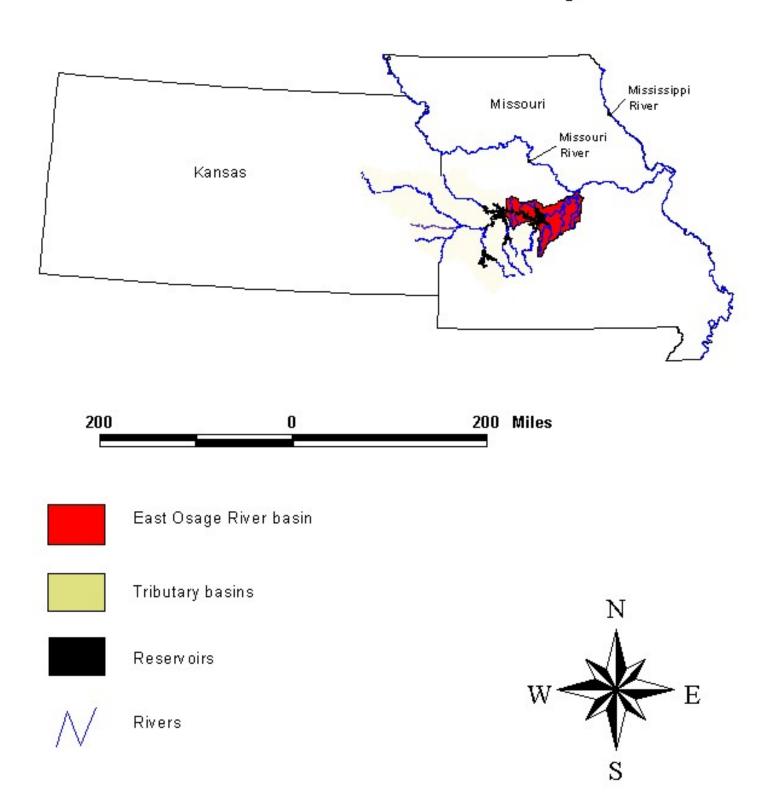
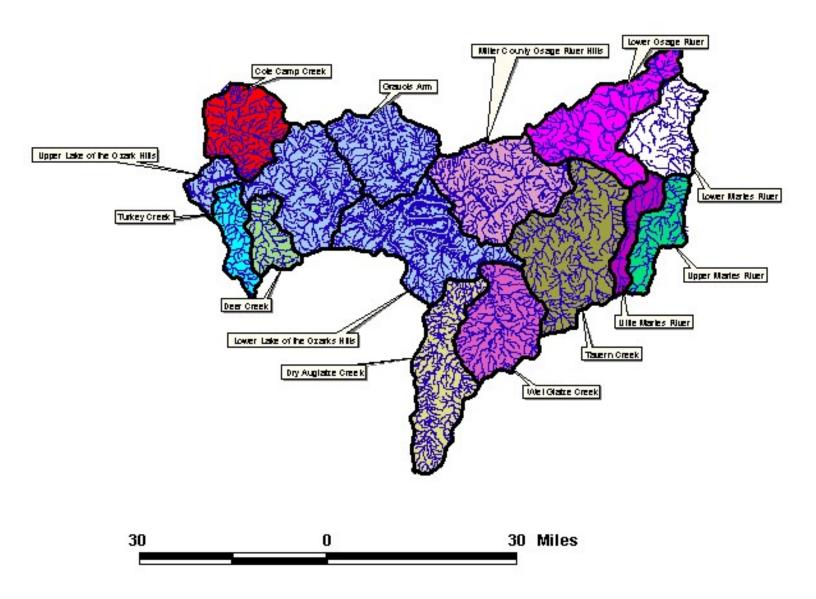


Figure 3. Subbasins of the East Osage River Basin



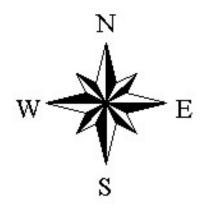


Table 1. 11-digit hydrologic units making up the East Osage River Basin.

Hydrologic unit name	11-digit number	Area (mi.²)	Area (acres)
Cole Camp Creek	10290109020	147	93,799.5
Upper Lake of the Ozark Hills	10290109040	265	169,755.4
Gravois Arm	10290109050	179	114,613.3
Miller County Osage River Hills	10290111020	252	161,071.9
Lower Osage River	10290111060	218	139,453.2
Lower Maries River	10290111050	133	84,942.2
Upper Maries River	10290111040	92	58,835.9
Little Maries River	10290111030	60	38,135.9
Tavern Creek	10290111010	314	200,629.0
Wet Glaize Creek	10290109070	180	115,110.5
Dry Auglaize Creek	10290109060	205	131,154.7
Lower Lake of the Ozarks Hills	10290109080	265	169,580.9
Deer Creek	10290109030	70	44,587.5
Turkey Creek	10290109010	72	46,021.9

Turkey Creek	10290109010	72	46,021.9
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Table 2. Stream name, order, unimpounded length, impounded length, length influenced by Bagnell Dam discharge, and confluence for fourth-order and larger streams in the East Osage River Basin.

Order	Unimpounded* Length (mi)	Length impounded by Lake of the Ozarks (mi)	Length ** influenced by Bagnell Dam Discharge (mi)	Confluence	
8	82	93	82	Missouri River	
	LOWER OSA	GE RIVER SUBBASIN			
4	12.8	0	0	Osage River	
4	5.5	0	0	Osage River	
	LOWER MAR	IES RIVER SUBBASIN		,	
6	37.5	0	0	Osage River	
5	13.7	0	0	Maries River	
4	5.6	0	0	Maries River	
4	4.9	0	0	Little Maries Creek	
4	3.7	0	0	Little Maries Creek	
	UPPER MARI	ES RIVER SUBBASIN		,	
5	28.2	0	0	Maries River	
4	4.7	0	0	Maries River	
4	3.6	0	0	Maries River	
4	5.6	0	0	Maries River	
LITTLE MARIES RIVER SUBBASIN					
4	25.5	0	0	Maries River	
TAVERN CREEK SUBBASIN					
5	55.4	0	0	Osage River	
5	17.9	0	0	Big Tavern Creek	
4	10.5	0	0	Big Tavern Creek	
4	5.8	0	0	Big Tavern Creek	
	8	Order Length (mi) 8 82 LOWER OSAGE 4 12.8 4 5.5 LOWER MAR 6 37.5 5 13.7 4 5.6 4 4.9 4 3.7 UPPER MARI 5 28.2 4 4.7 4 3.6 4 5.6 LITTLE MAR 4 25.5 TAVERNO 5 55.4 5 17.9 4 10.5	Order Length (mi) Length by Lake of the Ozarks (mi) 8 82 93 LOWER OSAGE RIVER SUBBASIN 4 12.8 0 LOWER MARIES RIVER SUBBASIN 6 37.5 0 5 13.7 0 4 5.6 0 4 4.9 0 4 3.7 0 UPPER MARIES RIVER SUBBASIN 5 28.2 0 4 4.7 0 4 3.6 0 4 5.6 0 LITTLE MARIES RIVER SUBBASIN 4 25.5 0 TAVERN CREEK SUBBASIN 5 55.4 0 5 17.9 0 4 10.5 0	Corder Length (mi) Control C	

Kenser Creek	4	6.8	0	0	Big Tavern Creek
Barren Fork	4	13.3	0	0	Big Tavern Creek
				1	'
Table 2. Stream name, order,	unimpounded l	ength, impounded leng	th, length influenced by B	agnell Dam discharge	and confluence for
fourth-order and larger strea			,g		
Name	Order	Unimpounded*	Length impounded by Lake of the	Length ** influenced by	Confluence
Name	Order	Length (mi)	Ozarks (mi)	Bagnell Dam Discharge (mi)	Commuence
		DRY AUGLA	IZE CREEK SUBBASIN		
Dry Auglaize Creek	5	44.7	0	0	Grand Glaize Creek
Goodwin Hollow	4	26.4	0	0	Dry Auglaize Creek
		WET GLAIZ	ZE CREEK SUBBASIN		'
Grand Auglaize Creek (unimpounded section)	6	7.8	0	0	Lake of the Ozarks
Wet Glaize Creek	5	11.7	0	0	Grand Auglaize Creek
Deane Creek	4	11.9	0	0	Grand Auglaize Creek
Murphy's Creek	4	8.8	0	0	Wet Glaize Creek
Conn's Creek	4	4.7	0	0	Wet Glaize Creek
Sellars Creek	5	9.0	0	0	Wet Glaize Creek
Mill Creek	4	5.5	0	0	Sellars Creek
		LOWER LAKE OF T	HE OZARK HILLS SUB	BASIN	
Grand Auglaize Creek (impounded section)	6	0	15.5	0	Lake of the Ozarks
Linn Creek	4	6.9	3.5	0	Lake of the Ozarks
		DEER C	REEK SUBBASIN		

Little Deer Creek	4	10.4	0	0	Deer Creek	
TURKEY CREEK SUBBASIN						
Turkey Creek	4	24.2	2.4	0	Lake of the Ozarks	
		COLE	CAMP CREEK			
Cole Camp Creek	5	23.5	4.8	0	Lake of the Ozarks	
Williams Creek	4	11.2	0	0	Cole Camp Creek	
Duran Creek	4	10.0	0	0	Cole Camp Creek	
Bauer Branch	4	6.2	0	0	Cole Camp Creek	
Indian Creek	4	10.1	0	0	Cole Camp Creek	
Table 2. Stream name, order, fourth-order and larger stream			h, length influenced by B	Sagnell Dam discharge a	and confluence for	
Name	Order	Unimpounded* Length (mi)	Length impounded by Lake of the Ozarks (mi)	Length ** influenced by Bagnell Dam Discharge (mi)	Confluence	
		UPPER LAKE OF TH	HE OZARK HILLS SUB	BASIN		
Big Buffalo Creek	5	11.1	2.5	0	Lake of the Ozarks	
Little Buffalo Creek	4	7.6	2.1	0	Lake of the Ozarks	
Proctor Creek	4	4.5	1.7	0	Lake of the Ozarks	
Feaster Creek	4	3.4	1	0	Lake of the Ozarks	
Knobby Creek	4	7.0	1.5	0	Lake of the Ozarks	
Rainy Creek	4	6.9	2.5	0	Lake of the Ozarks	
GRAVOIS ARM SUBBASIN						
Big Gravois Creek	4	12.4	10.4	0	Lake of the Ozarks	
Little Gravois Creek	4	8.3	1.8	0	Lake of the Ozarks	

Mill Creek	4	5.5	2.6	0	Lake of the Ozarks			
	MILLER COUNTY OSAGE RIVER HILLS SUBBASIN							
Little Gravois Creek	5	7.6	0	1.1	Osage River			
East Fork Little Gravois Creek	4	7.4	0	0	Little Gravois Creek			
Big Saline Creek	6	16.0	0	1	Osage River			
Little Saline Creek	4	10.0	0	0	Big Saline Creek			
Dog Creek	4	12.8	0	0	Osage River			
Cub Creek	4	6.0	0	0	Osage River			
Jack Buster Creek	5	7.0	0	0	Big Saline Creek			
Cattail Creek	4	4.2	0	0	Osage River			
Bear Creek	4	9	0	0.1	Osage River			
Unnamed Creek	4	2.7	0	0	Jack Buster Creek			
Unnamed Creek	4	3	0	0	Big Saline Creek			

^{*} unimpounded stream length above Lake of the Ozarks normal pool (660" elevation)

^{**}distances taken from 7.5 minute topographic maps at 12-15,000 cfs approximate discharge